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TITLE: Improved method for the production of bacterial toxins
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PATENT ASSIGNEE(S): Baxter International Inc., USA; Baxter Healthcare S.A.
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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001074862	A2	20011011	WO 2001-US10938	20010404
WO 2001074862	A3	20021003		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2002061555	A1	20020523	US 2001-825770	20010404
US 6686180	B2	20040203		
US 2002165344	A1	20021107	US 2001-825769	20010404
EP 1268531	A2	20030102	EP 2001-926612	20010404
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003531586	T2	20031028	JP 2001-572551	20010404
PRIORITY APPLN. INFO.:			US 2000-194478P	P 20000404
			US 2000-194482P	P 20000404
			WO 2001-US10938	W 20010404

AB Methods and compns. are provided for the enhanced production of bacterial toxins in large-scale cultures. Specifically, methods and compns. for reducing bacterial toxin expression inhibitors are provided including, but not limited to, addition of toxin expression inhibitor binding compds., culture media having reduced concns. of toxin inhibitor metabolic precursors and genetically modified toxigenic bacteria lacking enzymes required to metabolize the toxin inhibitor metabolic precursors.

IC ICM C07K014-235

ICS C12N009-22; C12N001-21; C12P021-02

CC 16-2 (Fermentation and Bioindustrial Chemistry)

ST pertussis toxin prodn inhibitor removal

IT Culture media

(defined; improved method for production of bacterial toxins)

IT Bordetella

Clostridium

Escherichia

Salmonella

Shigella

Staphylococcus

Vibrio

(exotoxin forming; improved method for production of bacterial toxins)

- IT Affinity chromatography
Bordetella bronchiseptica
Bordetella pertussis
Fermentation
Genetic engineering
(improved method for production of bacterial toxins)
- IT Halides
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(improved method for production of bacterial toxins)
- IT Mutation
(insertion; improved method for production of bacterial toxins)
- IT Gene, microbial
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(nifs; improved method for production of bacterial toxins)
- IT Agglutinins and Lectins
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(pertactins; improved method for production of bacterial toxins)
- IT Toxins
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(pertussis; improved method for production of bacterial toxins)
- IT 14808-79-8, Sulfate, biological studies
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(improved method for production of bacterial toxins)
- IT 52-90-4, L-Cys, biological studies
RL: ADV (Adverse effect, including toxicity); BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)
(improved method for production of bacterial toxins)
- IT 9012-42-4, Adenylate cyclase
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(improved method for production of bacterial toxins)
- IT 9024-57-1, Cysteine sulfinic desulfinate
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(improved method for production of bacterial toxins)
- IT 56-84-8, L-Aspartic acid, biological studies 56-87-1, L-Lys, biological studies 63-68-3, L-Methionine, biological studies 64-18-6, Formic acid, biological studies 64-19-7, Acetic acid, biological studies 72-19-5, L-Threonine, biological studies 74-79-3, L-Arg, biological studies 77-92-9, Citric acid, biological studies 110-15-6, Succinic acid, biological studies 127-17-3, Pyruvic acid, biological studies 144-62-7, Oxalic acid, biological studies 147-85-3, L-Proline, biological studies 6915-15-7, Malic acid
RL: BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)
(improved method for production of bacterial toxins)
- IT 10361-37-2, Barium chloride, biological studies 10553-31-8, Barium bromide
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(improved method for production of bacterial toxins)

IT 14280-50-3, Pb2+, biological studies 15046-91-0, Ag2+, biological studies 22537-39-9, Sr2+, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(soluble salts of; improved method for production of bacterial toxins)

IT 366376-62-7, 1: PN: WO0174862 SEQID: 24 unclaimed DNA 366376-63-8, 2: PN: WO0174862 SEQID: 25 unclaimed DNA 366376-64-9, 3: PN: WO0174862 SEQID: 26 unclaimed DNA 366376-65-0, 4: PN: WO0174862 SEQID: 27 unclaimed DNA
RL: PRP (Properties)
(unclaimed nucleotide sequence; improved method for the production of bacterial toxins)

IT 366852-35-9 366852-36-0 366852-37-1 366852-38-2 366852-39-3 366852-40-6 366852-41-7
RL: PRP (Properties)
(unclaimed sequence; improved method for the production of bacterial toxins)